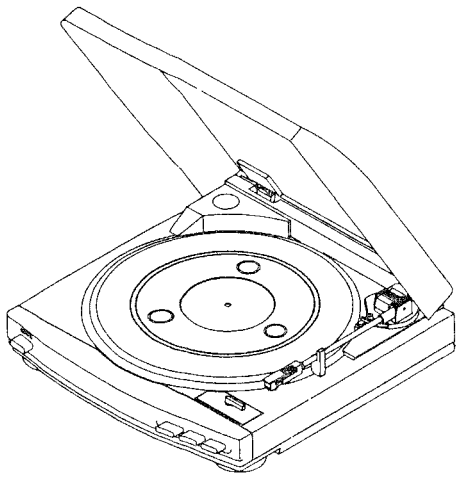
aiwa

aiwa SERVICE

PX-E850



STEREO TURNTABLE SYSTEM

SERVICE MANUAL

• TYPE:EE,K,U,H,HE

SPECIFICATIONS

Motor	DC servo motor
Drive system	Belt drive
Speed	33-1/3 rpm, 45 rpm
Wow & flutter	0.25% (WRMS)
S/N ratio	45 dB (DIN-B)
Cartridge type	VM type
Stylus	AIWA AN-11
Output level	200 mV (2.5 mV/sw. OFF)
Dimensions	Approx. 360 × 97 × 358 mm (w/h/d) (14 1/4 × 3 7/8 × 14 1/8 in.)
Weight	Approx. 2.4 kg net (5.28 lb)

Power requirement

USA model (PX-E850U)	120 V AC, 60 Hz
European model (PX-E850E)	230 V AC, 50 Hz
U. K. model (PX-850K)	230 V – 240V AC, 50 Hz
Models for other countries (PX-E850H, HE)	110 V – 127 V AC, 220 V – 240 V AC selectable, 50/60 Hz

Power consumption 3 watts

● Design and specifications are subject to change without notice.

S/M Code No. 09-947-070-90I

ADJUSTMENT

1. Auto Return Adjustment.
   Test Record (HP – 4005)

Adjustment	Count
Auto Return	9 – 12

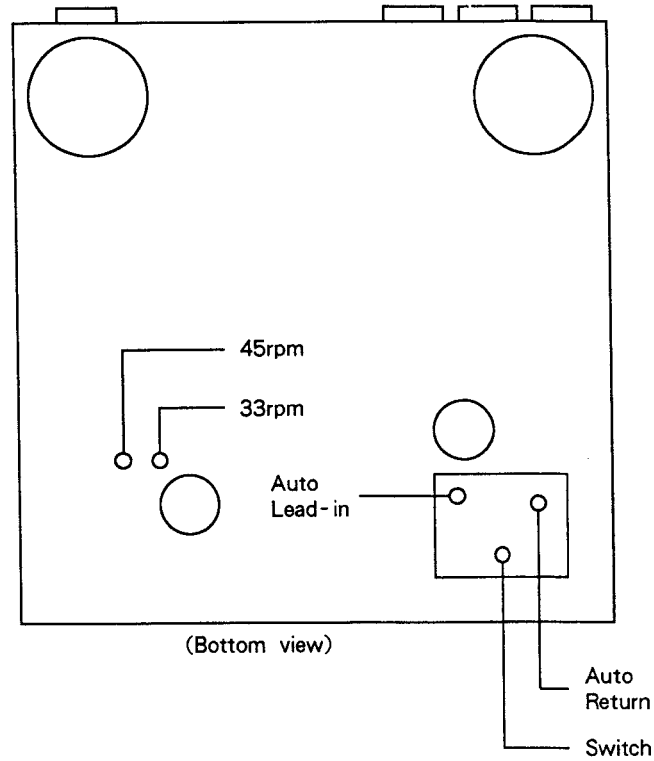
2. Auto Lead – in Adjustment.
   Test Record (HT – 5 side1)

Adjustment	Disk Size	Count
Auto Lead-in	30cm	13 – 17
	17cm	13 – 16

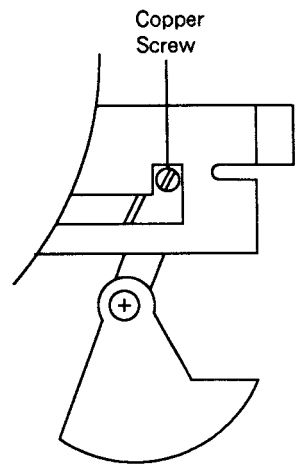
3. Phono Motor Speed Adjustment.
   Test Record (HP – 4005)

33rpm	3000Hz
45rpm	3000Hz

4. Switch Adjustment.
   (1). Fix tonearm on armrest, remove bottom cover.
   (2). Turn the switch adj. screw so that the plastic tip touches the center position of leaf switch.
   (3). Turn the copper screw so that the gap between two contact point on the leaf switch is from 0.35mm to 0.8mm.



(Bottom view)



PRACTICAL SERVICE FIGURE

< Turntable Section >
Wow & flutter : Less than 0.23% (WRMS)

< Cartridge Section >
Stylus trip : 0.6mil
Stylus pressure : 3.5g
Output voltage : 127~262mV

ELECTRICAL MAIN PARTS LIST

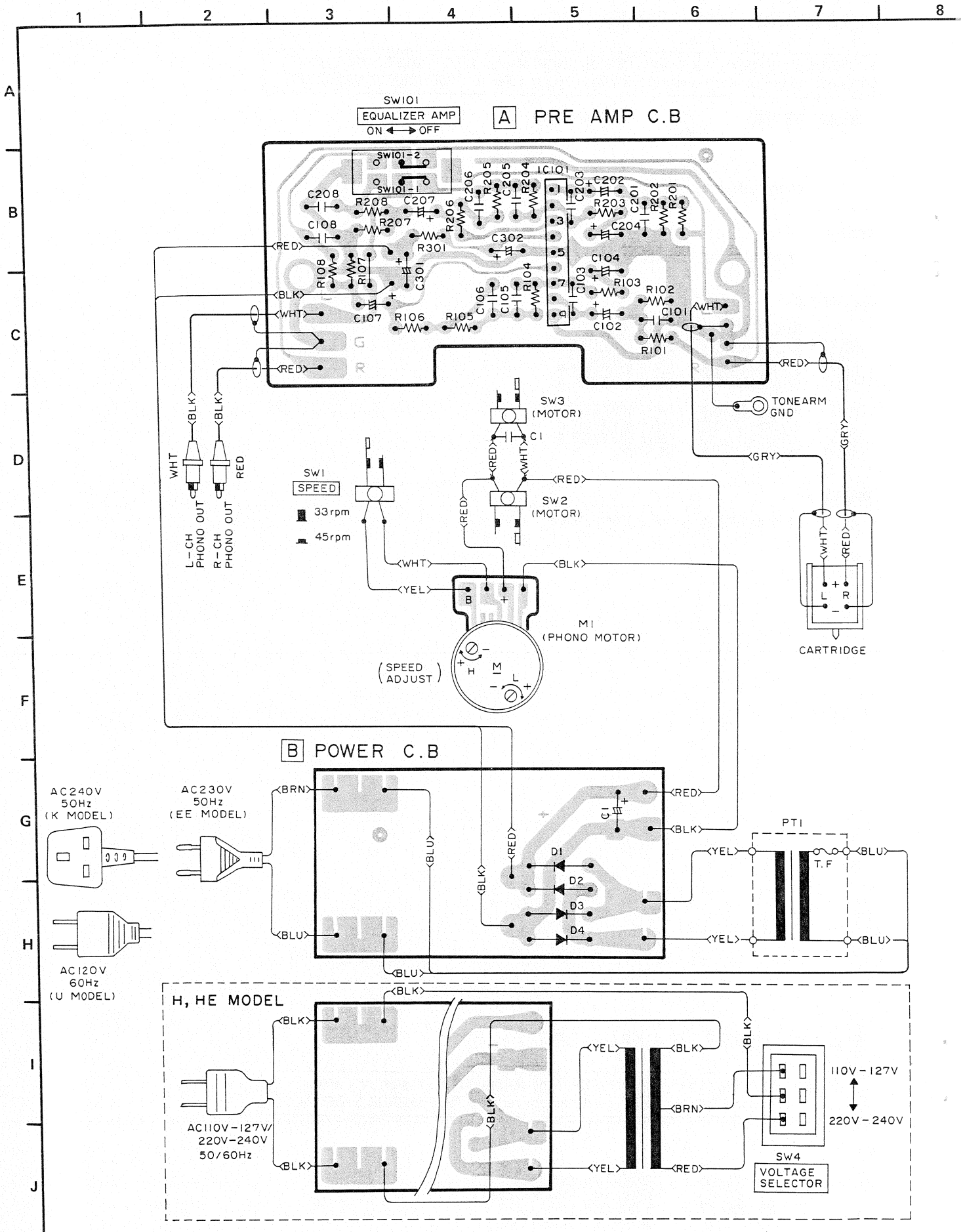
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
IC			
	87-027-683-010		IC, TA7325
DIODE			
	87-001-783-080		DIODE, 1N4002
PRE AMP C. B			
	S8-E27-BK0-190		SIGNAL WIRE
C102	87-010-404-010		CAP, E 4. 7UF/50V M
C104	87-010-412-010		CAP, E 10UF/25V M
C107	87-010-404-010		CAP, E 4. 7UF/50V M
C202	87-010-404-010		CAP, E 4. 7UF/50V M
C204	87-010-412-010		CAP, E 10UF/25V M
C207	87-010-404-010		CAP, E 4. 7UF/50V M
C302	87-010-112-010		CAP, E 100UF/16V M
SW101	S3-PXE-900-280		SW, SLIDE
POWER C. B			
C1	87-010-237-010		CAP, E 1000UF/16V M

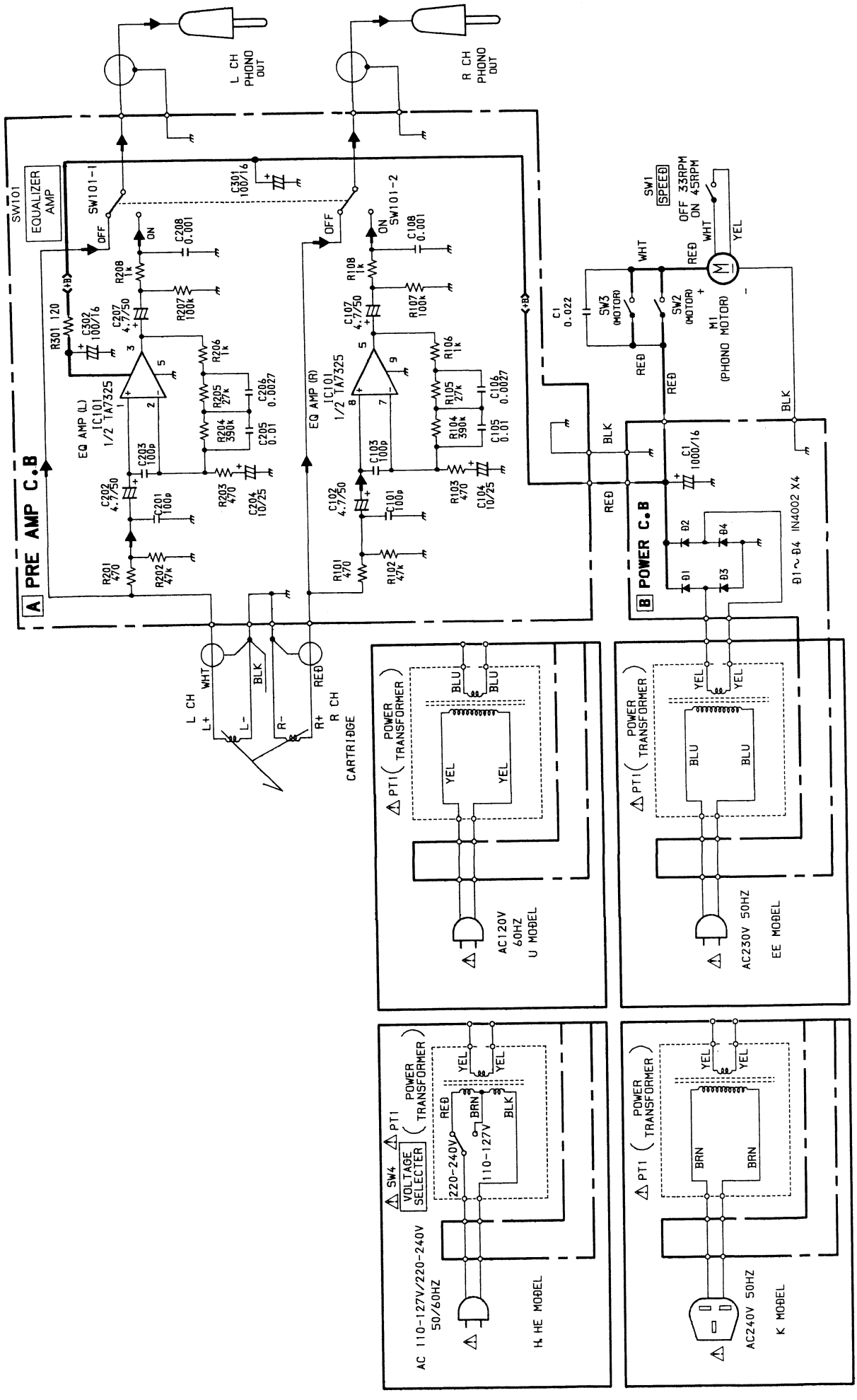
■ ACCESSORIES／PACKAGE LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

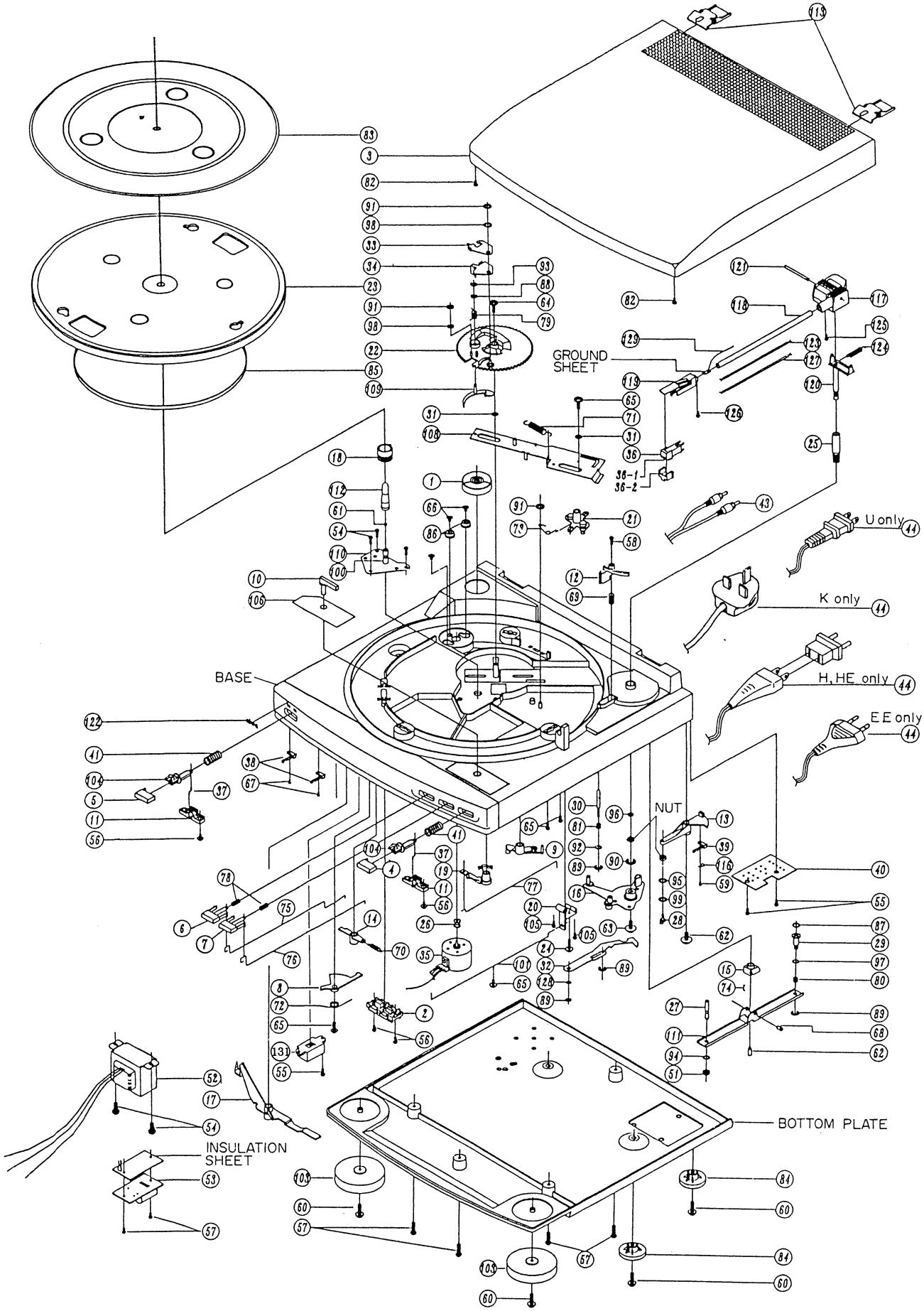
REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	SX-E85-040-8U0		INSTRUCTION BOOKLET〈U〉
1	SP-XE8-504-080		INSTRUCTION BOOKLET〈EXCEPT U〉
2	S0-0H2-000-160		45 RPM ADAPTOR
3	S2-031-320-030		TRANSFERBLE SOCKET〈H, HE〉


SW101
EQUALIZER AMP
ON ◀▶ OFF
A PRE AMP C.B
SW101-2
SW101-1
IC101
C208
R208
C207
R207
C108
R108
R107
C107
R106
R105
C106
C105
R104
C206
R206
C205
R205
C204
R204
C203
R203
C202
R202
C201
R201
C302
R301
C301
C104
C103
R103
C102
R102
C101
R101
RED
BLK
WHT
GRY
G
R
SW3
(MOTOR)
C1
SW1
SPEED
33rpm
45rpm
SW2
(MOTOR)
TONEARM
GND
L-CH
PHONO OUT
R-CH
PHONO OUT
WHT
RED
YEL
B
M1
(PHONO MOTOR)
(SPEED
ADJUST)
H
L
CARTRIDGE
B POWER C.B
AC240V
50Hz
(K MODEL)
AC230V
50Hz
(EE MODEL)
AC120V
60Hz
(U MODEL)
BRN
BLU
D1
D2
D3
D4
PTI
T.F
H, HE MODEL
AC110V-127V/
220V-240V
50/60Hz
110V-127V
220V-240V
SW4
VOLTAGE
SELECTOR

SCHEMATIC DIAGRAM



MECHANICAL EXPLODED VIEW1／1



MECHANICAL PARTS LIST1／1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	カンリ NO.	DESCRIPTION
1	- - -		45 RPM ADAPTOR
2	S0-0B6-001-440		PRESS SET
3	SP-XE8-508-950		DUST COVER
4	SP-XE8-509-000		CUEING KNOB
5	SP-XE8-508-970		SPEED KNOB
6	SP-XE8-508-980		START KNOB
7	SP-XE8-508-990		CUT KNOB
8	S0-SL2-4F2-340		PENDULUM(L)
9	S0-SL2-4F2-350		PENDULUM(M)
10	S0-SL2-4F2-360		SELECT RECORD KNOB
11	S0-0F7-002-590		KNOB SET
12	S0-SL2-4F2-380		LIFTER
13	S0-SL2-4F2-390		FIEXING SWITCH SET
14	S0-SL2-4F2-400		PENDULUM(S)
15	S0-SL2-4F2-410		LIFTER SET
16	S0-SL2-4F2-420		STATING LEVER
17	S0-SL2-4F2-430		STATING SUPPORT
18	S0-SL2-4F2-440		SMALL GEAR
19	S0-SL2-4F2-450		SELECTOR
20	S0-0F7-002-720		OIL SHAFT SET
21	S0-SL2-4F2-470		SELECT PLATE
22	S0-SL2-4F2-480		CAM GEAR
23	S0-0F7-002-280		PLATTER TARNTABULE
24	S2-F20-001-000		SCREW
25	S0-SL2-4F1-070		TONE ARM SHAFT SET
26	S0-0L1-001-330		PULLEY
27	S0-SL2-4F1-120		SHAFT
28	S0-SL2-4F1-130		SHAFT
29	S0-SL2-4F1-140		SHAFT
30	S0-SL2-4F1-160		SHAFT
31	S0-SL2-4F1-170		COPPER WASHER
32	S0-SL2-4F1-260		CONTROL PLATE
33	S0-SL2-4F1-300		FRICTION LINK
34	S0-SL2-4F1-310		ACTUATING LINK
35	S0-1H7-030-380		MOTOR MMI-6T2RWK
36	S2-E27-BK0-480		CATRIDGE(W/STYLUS)
36-1	S1-E27-BK0-230		STYLUS
36-2	S0-0B6-011-800		STYLUS COVER
37	S2-F20-000-100		STEEL CLAMPER
38	S3-SL2-4F0-110		MICRO SWITCH
39	S0-3L1-000-160		MICRO SWITCH
40	S4-PXE-906-770		DUAL PREAMP, P. C. B ASSY
41	S0-3B6-000-400		SPRING
43	S8-E27-BK0-190		SIGNAL WIRE
⚠ 44	SC-132-0FA-034		AC CORD〈U〉
⚠ 44	S0-920-020-010		AC CORD〈H, HE〉
⚠ 44	S9-300-401-6A0		AC CORD(E)〈E〉
⚠ 44	SH-MD5-00B-037		AC CORD(K)〈K〉
⚠ 51	S1-A10-000-400		NUT
⚠ 52	SP-XE8-50K-070		POWER TRANS〈K〉
⚠ 52	SP-XE8-50U-067		POWER TRANS〈U〉
⚠ 52	S1-PXE-900-470		POWER TRANS(H)〈H, HE〉
⚠ 52	S1-PXE-850-068		POWER TRANSFORMER〈E〉
53	S4-PXE-907-100		POWER P. C. B ASSY
54	S2-B60-005-600		SCREW
55	S2-B60-005-700		SCREW
56	S2-B60-005-800		SCREW
57	S2-B60-007-200		SCREW
58	S2-MD2-608-100		SCREW
59	S2-K68-008-800		SCREW
60	S2-SL2-4F0-920		SCREW
61	S2-SL2-4F0-930		SCREW
62	S2-SL2-4F0-940		SCREW
63	S2-SL2-4F0-950		SCREW
64	S2-SL2-4F0-960		SCREW
65	S2-SL2-4F0-970		SCREW
66	S2-SL2-4F1-090		SCREW
67	S2-SL2-4F0-990		SCREW
68	S2-SL2-4F1-000		SCREW
69	S0-3MD-260-590		SPRING
70	S3-SL2-4F0-660		SPRING
71	S3-SL2-4F0-670		SPRING
72	S3-SL2-4F0-680		SPRING
73	S3-SL2-4F0-690		SPRING
74	S3-SL2-4F0-720		SPRING
75	SP-XE8-501-820		SPRING
76	SP-XE8-501-830		SPRING
77	S0-3L1-001-030		SPRING
78	S3-SL2-4F0-760		SPRING
79	S3-SL2-4F0-770		SPRING
80	S3-SL2-4F0-780		SPRING
81	S3-SL2-4F0-790		SPRING
82	S4-B60-002-6A0		FOOT FOR DUST COVER
83	S4-PXE-900-720		PLATTER MAT
84	S4-SL2-4F0-360		RUBBER FOOT
85	S4-PXE-900-760		BELT
86	S4-SL2-4F0-380		RUBBER FOOT FOR MOTOR
87	S4-SL2-4F0-390		RUBBER CAP
88	S0-6F2-000-060		WASHER
89	S0-6F2-000-110		E-RING WASHER (3M/M)
90	S0-6F2-000-120		E-RING WASHER (5M/M)
91	S0-6F2-000-130		CS WASHER (3M/M)
92	S0-6H2-000-190		WASHER METAL 3-5-1
93	S0-6B3-000-290		E-RING WASHER 1.5MM
94	S0-6B3-000-390		SPRING WASHER METAL 3-5-1
95	S0-6D2-000-510		SPRING WASHER METAL 3-6-1
96	S6-SL2-4F0-550		WASHER
97	S6-SL2-4F0-560		WASHER METAL 5-8-0.5
98	S6-SL2-4F0-570		WASHER METAL 3-10-0.5
99	S6-SL2-4F0-580		WASHER
100	S0-7B6-000-020		STEEL BALL
101	SP-XE8-501-840		SPRING FOR CUEING
103	S0-PXE-903-320		FOOT RING
104	S0-0B6-001-390		KNOB SHAFT
105	S2-MD2-608-200		SCREW
106	S0-1L1-002-600		DECORATIVE PLATE(SIZE)
108	S3-SL2-4F0-490		RETURN LINK ASS'Y
109	S3-SL2-4F0-500		CAM GEAR CONTROL ASY
110	S3-SL2-4F0-510		PLATE SHAFT SET ASY
111	S3-SL2-4F0-520		CUEING LEVER ASSY
112	S2-PXE-900-090		PLATER SHAFT ASS'Y
113	S0-3B6-000-260		HINGE ASS'Y
116	S1-3H4-610-030		CONDENSER
117	S0-SL2-4F2-310		TONE ARM SET
118	S0-SL2-4F1-320		TONE ARM TUBE
119	S0-SL3-4F2-320		HEADSHELL
120	S3-SL2-4F0-560		ROTARY SHAFT ASSY
121	S0-SL2-4F1-180		PIN (FOR TONEARM SET)
122	SP-XE8-508-500		DECORATIVE PLATE
123	S4-PXE-900-900		SHIELD WIRE(WHITE)
124	S3-SL3-4F0-830		SPRING
125	S2-F20-000-100		SCREW
126	S2-SL2-4F1-050		SCREW
127	S7-PXE-900-910		SHIELD WIRE(RED)
128	S6-DP3-6F0-640		WASHER
129	S4-PXE-900-920		WIRE(BLACK)
130	- - -		NOT USED
⚠ 131	S3-PXE-900-270		SL, SWITCH〈H, HE〉

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, SERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER
サージサプレッサ	SERGESUPPRESSOR
セラコン	CAP,CERA

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL
ジグアーム	ARM,SHAFT
ジグガイド	GUIDE,SHAFT
ストラップ	STRAP
トクナベ	S-SCRW
ヒンジ	HINGE
ヒンジビス	S-SCRW
ビスセレート	SCRW,SERRART

サービス技術ニュース	
番号	連絡内容
G－　－	
G－　－	
G－　－	

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